

Access through Telenet:

Telenet's asynchronous dial-in services are available to PLDS users across the USA with either a local call or an IN-WATTS call (1-800-255-NASA). To use this service you must have a valid NASA Packet Switch Network (NPSS) userID & Password. Call your local PLDS user support office (see back) and they will file the paperwork to get your valid userID and Password. It will take about 3 weeks for Marshall Space Flight Center to process the request and issue your userID. When you get your ID the PLDS USO will explain how to access PLDS via Telenet.

Access through NASA Science Internet:

TCP/IP:

If your terminal has access to the TCP/IP protocol, you can connect to the PLDS computers. Many national networks are interconnected. NSI is connected to a wide variety of TCP/IP networks such as NSFnet and is referred to collectively as the *Internet*.

At the prompt (\$ or %) on each node, enter **telnet** and the name of the node given below. If the HOST UNKNOWN message appears, at the prompt, try again using the number instead of the node name. At the **USERNAME:** or **login:** prompt, log on with **plds** or your assigned user account name.

DECnet:

Users with access to NSI DECnet, formerly the NASA Space Physics Analysis Network (SPAN), can connect as follows: At the \$ prompt, on VMS systems, enter **SET HOST** and the name of the PLDS node from the table below. If that fails try again using the DECnet number given in the table.

Node	TCP / IP		DECnet	
	Name	Node NBR	Name	Node NBR
ARC	plds1.arc.nasa.gov	128.102.24.24	plds1	24686
GSFC	plds3.gsfc.nasa.gov	128.183.104.8	plds3	6996
JPL	pldsj2.jpl.nasa.gov	128.149.1.148	pldsj2	5542

Ordering/Price Policy

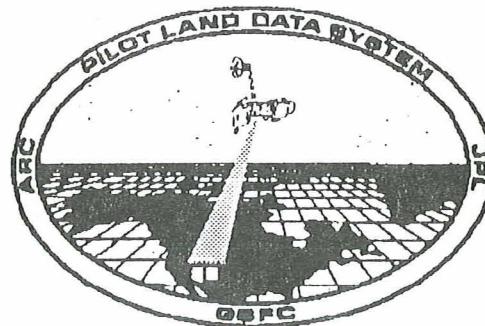
Use of PLDS and data ordered from PLDS is free of charge to authorized scientists. Contact a PLDS user support office for authorization (see back). Scientists may request that data be sent to them on magnetic media, over the networks to their local computer, or to their disk space on a PLDS computer. Written format documents are sent upon request with all orders for digital data.

User Support Office			
PLDS User Support Office NASA Goddard Space Flight Ctr. Code 934 Greenbelt, MD 20771	(301) 286-9761 FTS 888-9761	PLDSG3:PLDSUSO SUPPORT/GSFCMAIL pldsuso@plds3.gsfc.nasa.gov	
PLDS User Support Office NASA Jet Propulsion Laboratory Mail Stop 183-501 Pasadena, CA 91109	(818) 354 6363 FTS 792-6363	PLDSJ1:GEORGE george@pldsj2.jpl.nasa.gov	
PLDS User Support Office NASA Ames Research Center Ecosystem Sci. & Tech. Branch Mail Stop 242-4 Moffett Field, CA 94035	(415) 604 5947 FTS 464 5947	ECO:PLDS GLANGELIC/NASAMAIL gary@plds1.arc.nasa.gov	

Hours
plds3, NASA Goddard Space Flight Center USO: 9:00 AM - 5:00 PM, Monday through Friday Computer: 24 Hours, Monday through Sunday Computer Operator: 24 Hours, Sunday through Friday
plds2, NASA Jet Propulsion Laboratory USO: 9:00 AM - 4:00 PM, Monday through Friday Computer: 24 Hours, Monday through Sunday Computer Operator: 7:30 AM - 3:00 PM (Pacific Time), Monday through Friday
plds1, NASA Ames Research Center USO: 8:00 AM - 4:30 PM, Monday through Friday Computer: 24 Hours (Pacific Time), Monday through Sunday except 9:00 - 11:00 AM Monday

PLDS Project Office
Code 934, Goddard Space Flight Center
Greenbelt, Maryland 20771

A GUIDE TO NASA's PILOT LAND DATA SYSTEM (PLDS)



January 1991

NASA

National Aeronautics and
Space Administration

N91-27035

Description

NASA's Pilot Land Data System (PLDS) is a distributed information management system designed to support NASA's land science community. The PLDS provides a wide range of services including management of information about scientific data, access to a library of scientific data, a data ordering capability, communications, connection to data analysis facilities, and electronic mail. The PLDS provides these services by offering scientists the capability to search for and order data, and to communicate electronically with other scientists and computers. Three functions enable scientists to find what data are available and where they reside. The first two, *Find data summaries* and *Read detailed descriptions* give summary and detailed descriptions about data sets or groups of related data sets, science projects, and institutions which archive land data. The third, gives information about specific pieces of data. This last function has two components, *Search systemwide inventory* and *Search local inventory*. The first component enables the user to find data elements (images, geological samples, transects, maps, etc.) that exist anywhere in the PLDS while the second has only information about data at the local site. The first enables the user to find pieces of data from several different data sets with the same temporal and spatial coverage and other elements common to most data sets, while the second allows the user to select a data set based on these descriptors and on those that are unique to a data set.

The PLDS provides capabilities that enable electronic file transfers, intercomputer connection, and electronic mail. Both TCP/IP and DECnet protocols are supported via the NASA Science Internet (NSI). Access is also available through Telenet.

To acquire data, users can place orders through the PLDS while logged on or they can call one of the User Support Offices listed on the back.

The scientific data and related descriptive information managed by PLDS come from several sources. These include four NASA land science projects (First ISLSCP Field Experiment (FIFE), the Inter-Disciplinary Sciences-Land Surface Climatology (IDS-LSC)

project, the Sedimentary Basins Project (SBP), and the Oregon Transect Ecosystem Research Project (OTTER)), and several other data processing facilities, individual scientists and data systems.

All information about specific pieces of scientific data has passed a check for internal consistency and typographical errors. In addition, information about the validity of the scientific data is also provided if it was supplied with the data.

Contents

<u>Data set</u>	<u>Site Location</u>
Aerial Photos (VIS, IR)	ARC
Airborne Sun Photometer	ARC
Aircraft SAR	JPL
AIS (Airborne Imaging Spectrometer)	JPL (Future)
Auto Meteorological Station	GSFC
AVIRR (LAC)	GSFC
AVIRIS	JPL (Future)
Daedalus (Thematic Mapper Simulator)	ARC
Digital Elevation Models	JPL
Field Spectra (PIDAS, PFES)	JPL (Future)
Geological Samples	JPL (Future)
MSS	GSFC (Future)
NS-001 (Thematic Mapper Simulator)	ARC, GSFC
Polarization Differences Vegetation Index (PDVI)	GSFC
Snow Cover	GSFC
Spectra (FTIR, Beckman)	JPL (Future)
TIMS	ARC, GSFC, JPL
TM	GSFC

Access Procedures

There are three PLDS sites, one at the Ames Research Center in California, one at the Goddard Space Flight Center in Maryland, and another at the Jet Propulsion Laboratory in California. Scientists wishing to use the PLDS must have an account on a PLDS computer. To obtain an account you must be an authorized user. For details contact a PLDS user support office (see back). A PLDS demonstration account (an account with limited privileges) is available at all PLDS sites, username **plds**.

This account is for the infrequent user or the curious. Users wishing to place orders for data must have a personal account or be an authorized user. There are several ways to access the PLDS: Dial-in modems; Telenet; and NSI (TCP/IP or DECnet).

Dial-in modems:

Users can connect to PLDS through dial-in modems. 300, 1200, and 2400 baud rates are supported by the data system.

<u>Setting</u>	<u>Preferred Value (optional value in [])</u>
Mode	ANSI
Parity	Even [Disabled]
Bits per character	7 [8 when parity disabled]
Baud	Equipment dependent either 300 or 1200 [2400 is connection specific]
Protocol	X On/X Off
Duplex	Full duplex preferred; Equipment dependent

Dial-in phone numbers:

<u>Site</u>	<u>FTS</u>	<u>Commercial</u>
ARC Site	464-7779	(415) 604-7779
GSFC Site	888-9000	(301) 286-9000
JPL Site	977-6324	(818) 393-6324

After dialing a site follow the steps given below for that site.

ARC: At the login: prompt, type **plds** or your user account name. If the login prompt does not appear press the **BREAK** key until you get the prompt.

GSFC: Press the return key until the ENTER NUMBER: prompt appears. Enter **PLDS** and press the **RETURN** key. At the CALL COMPLETE: prompt, press the **RETURN** key. At the USERNAME: prompt, logon with **PLDS** or your user account name.

JPL: At the login: prompt, type **plds** or your user account name.